

SOV/124-58-8-9310

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 134 (USSR)

AUTHOR: Balitskiy, P.V., *Cand. Tech. Sci.*

TITLE: ~~A~~ Model Study of the Natural Elastic Vibrations of a Column  
of Oil-well Drill Pipes (Modelirovaniye sobstvennykh uprugikh  
kolebaniy kolonny buril'nykh trub)

PERIODICAL: Tr. Mosk. neft. in-ta, 1957, Nr 20, pp 120-124

ABSTRACT: Bibliographic entry

Card 1/1

BALITSKIY, P.V.

Effect of geometric parameters of the controlling section of the  
drill column, the diameter and the depth of the well on the zenithal  
deflections when using bottom engines for drilling straight wells.

Trudy MINKHIGP no.35:187-194 '61.

(MIRA 14:11)

(Oil well drilling)

BALITSKIY, P. V.

Modeling of Elastically Vibrating Drill-Pipe Column"

Problems of Petroleum Production and Petroleum Engineering, Moscow, Neftyanoy  
institut, Gostoptekhnizdat, 1957, 393pp. (Trudy vyp. 20)  
This book is a collection of articles written by professors and faculty members  
of the Petroleum Inst. im I. M. Gubkin.

BALITSKIY, P.V.

Comparative analysis of the stability and durability of 6<sup>5</sup>/<sub>8</sub> " and  
3<sup>1</sup>/<sub>2</sub> " pipes in straight hole drilling using well bottom motors. Trudy  
MINKHIGP no.40:42-46 '63. (MIRA 16:4)  
(Oil well drilling--Equipment and supplies)

BALITSKIY, P.V.

Design and basic sizes of the directional sector of the drill column with a maximal deflection control for use in the electric drilling of straight wells. Trudy MINKHIGP no.40:47-62 '63. (MIRA 16:4)  
(Oil well drilling, Electric—Equipment and supplies)

BALITSKIY, P.V.

Axial deformation of the drill column in drilling straight wells using  
well bottom motors. Trudy MINKHIGP no.40:63-72 '63. (MIRA 16:4)  
(Oil well drilling)

ZHURAVLENKO, V., inzh.; BALITSKIY, S. [Balyts'kyi, S.], inzh.

The power of "blue coal". Znan. ta pratsia no.8:7-8 Ag '59.  
(Tidal power) (MIRA 13:2)

CHERNOBYL'SKIY, I. I. (dr. Tech. Sci.), BALITSKIY, S. A. and MINCHENKO, F. P.

"Results of an Experimental Investigation of Heat Transfer during Boiling of Aqueous Solutions of Lithium Bromide and Chloride under Vacuum."

report presented at sci. and tech. session on Heat Exchange during Change of Aggregate State of Matter (by Comm. on High Steam Conditions, Power Inst. AS USSR, and Int. Thermal Engineering, AS UkrSSR) Kiev, 23-28 Sep 57.

Ø Inst. Thermal Engineering, Acad. Sci. Ukr SSR (for Chernobyl'skiy, and Balitskiy)  
Cent. Boiler Turbine Inst. (for Minchenko)



8(6) ?

SOV/112-59-3-4544

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 3,  
pp 37-38 (USSR)

AUTHOR: Kremnev, O. A., and Balitskiy, S. A.

TITLE: Using the Power-House Extraction-Steam Heat for Household Refrigeration  
and Air Conditioning (Ispol'zovaniye otbornogo tepla TETs dlya bytovogo  
khladosnabzheniya i konditsionirovaniya vozdukha)

PERIODICAL: V sb.: Kompleksnoye energosnabzheniye gorodov. Minsk,  
1957, pp 149-158

ABSTRACT: Development of city central heating presents problems of refrigeration  
and air conditioning based on the heat of water, which could result in fuel  
savings. Estimates performed for the medium zone of the USSR show that in  
the near future, the heat load for air conditioning can amount to 30-40% of the  
building-heating load. Data on heat consumption per unit of refrigeration for  
various outfits and heat sources is presented. Lithium-bromide absorption  
outfits, with direct absorption of air moisture by the solution, yield, with equal

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SOV/112-59-3-4544

Using the Power-House Extraction-Steam Heat for Household Refrigeration . . . .

fuel consumption, 30% more refrigeration than ammonia absorption outfits, twice as much as compressor-type outfits, three times as much as freon steam-ejector outfits, and six times as much as water steam-ejector outfits. Their energy efficiency increases considerably if the industrial waste heat is used or when condenser-cooling water is used for hot-water supply. A basic diagram is presented of an absorption vacuum-water bromide- and lithium-chloride outfit for air conditioning. The coolant temperature involved is 60-95°C, the heat-utilization factor is 70-75%. Experimental models of such an outfit can be rationally constructed at power stations. Low-potential heat from power plants can also be used for refrigeration in household absorption-type refrigerators operating with lithium-bromide solution. A scheme of household refrigerator is presented which is more economical than compression types and much more economical than electrically-heated absorption outfits. Lithium-bromide and lithium-chloride outfits can be used also for utilizing waste heat by means of thermal pumps. Bibliography: 5 items.

Card 2/2

M. L. Z.

BAHITSKIY, S.A.

AUTHOR: ZoZulya, N.V. (Cand.Tech.Sci) & Balitskiy S.A. (Engineer) <sup>06-3-23/26</sup>

TITLE: Session on heat exchange during change of aggregate state of matter. (Sessiya po teploobmenu pri izmenenii agregatnogo sostoyaniya veshchestva.)

PERIODICAL: Teploenergetika, 1958, No.3. pp. 91-93(USSR)

ABSTRACT: The Commission on High Steam Conditions of the Power Institute of the Acad.Sci. of the U.S.S.R. and the Institute of Thermal Engineering of the Acad.Sci. of the Ukrainian SSR, held a scientific and technical session in Kiev on September 23-28, 1957 on questions of heat exchange during change of aggregate state of matter. The session was attended by scientific workers of academic and research institutes and colleges, and workers in design institutes and industry. Forty reports were read in the plenary and sectional sessions. The main tasks of the session were to consider the research work that had been carried out, to co-ordinate research work and to determine the most promising lines for investigation into heat exchange during change of aggregate state of matter. In his report 'Some problems of the theory of heat exchange during large volume boiling in tubes' corresponding member of the Acad.Sci. Ukrainian SSR, V.I. Tolubinskiy, critically examined the best known criterial equations for boiling liquid. Dr.Tech.Sci. S.S. Kubateladze, of the Central Boiler Turbine Institute made a report about 'Some problems of the theory of crises in the mechanism of boiling' which

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Session on heat exchange during change of aggregate state of matter. 06-3-23/26

systematised the results of investigations on critical densities of heat flow during boiling in large volume tubes. Dr.Phys.Math.Sci. A.A. Gukhman of the Moscow Division of the Central Boiler Turbine Institute made a report 'On the mechanism of influence of mass-exchange on heat-exchange during boiling', which analysed the influence of the developing gas phase on heat exchange during evaporation. Dr.Tech.Sci. L.D. Berman of the All-Union Thermo-Technical Institute delivered a report on the interrelationship between thermal and mass exchange during evaporation of a liquid and condensation of the steam in the presence of permanent gases. Corresponding Member of the Acad.Sci. of the U.S.S.R., G.N. Kruzhilin, discussed Tolubinskiy's report. Dr.Tech.Sci., V.G. Fastovskiy of the All-Union Electro-Technical Institute, gave information about experimental data obtained during boiling of a number of organic liquids and mixtures of them with water. Dr.Tech.Sci., B.S. Petukhov, Moscow Power Institute, pointed out the need for profound study of the mechanism of boiling of liquids. Cand.Tech.Sci., D.A. Labuntsov, Moscow Power Institute, expressed a similar opinion. The session on heat exchange during boiling in the region of moderate thermal loading heard 7 reports. Dr.Tech.Sci., V.D. Popov, (KTIPP) made a report on 'Heat transfer during boiling of crystallising solutions', Cand.Tech.Sci., V.G. Garyazha (KTIPP) presented the results of an experimental investigation of heat

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Session on heat exchange during change of aggregate state of matter. 96-3-23/20

transfer during the boiling of massecuite. Dr.Tech.Sci., I.I. Chernobyl'skiy (Institute of Thermal Engineering of the Acad.Sci. Ukrainian SSR, Engineer S.A. Balitskiy (same Institute) and Engineer F.P. Minchenko of the Central Boiler Turbine Institute reported the results of an experimental investigation of heat transfer during boiling of aqueous solutions of lithium bromide and chloride under vacuum. Cand.Tech.Sci. I.E. Veneraki, of the Kiev Polytechnical Institute, reported the results of investigations on heat transfer of a horizontal bundle of tubes to boiling water and sugar solution under conditions of free convection and vacuum. Cand.Tech.Sci. R.Ya. Ladiyev of the Kiev Polytechnical Institute reported on 'The use of approximate thermo-dynamic similarity to establish heat transfer relationships during boiling. Dr.Tech.Sci. I.I. Chernobyl'skiy of the Thermal Engineering Institute of the Acad.Sci. of the Ukrainian SSR and Cand.Tech.Sci. G.V. Patiani of the Power Institute of the Acad.Sci. Georgian SSR reported the results of investigations on the heat transfer co-efficient when boiling Freon 12 in large volume on horizontal tubes. Contributions to the discussion were made by Cand.Tech.Sci. V.Ya. Gol'tsov (M.I.Kh.M), V.D. Popov of KTIPP, Cand.Tech.Sci. V.M. Borishanskiy of the Central Boiler Turbine Institute, Cand.Tech.Sci. N.Yu. Tobilevich (TsINS). The session on heat

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Session on heat exchange during change of aggregate state of matter.

98-3-23/26

exchange during boiling in the region of high thermal loadings heard 13 reports. Engineer V.G. Chakrygin, and Cand.Tech.Sci. V.A. Lokshin of the All-Union Thermo-Technical Institute, reported on the results of experimental investigation of the influence of non-uniformity of heat exchange round the perimeter of a horizontal steam raising tube. Cand.Tech.Sci. V.M. Borishanskiy (Central Boiler Turbine Institute) reported the results of experiments on heat transfer to boiling water at super-high and near critical pressures. Cand.Tech.Sci. E.I. Aref'eva and Cand.Tech.Sci. I.T. Alad'ev of the Power Institute of the Acad.Sci. of the U.S.S.R. reported on the influence of wetting on heat exchange during boiling. Cand.Tech.Sci. Z.L. Miropol'skiy and Cand.Tech.Sci. M.E. Shitsman of the Power Institute of the Acad.Sci. of the U.S.S.R., gave the results of experiments on heat transfer and permissible specific thermal loading in the steam raising tubes of boilers. Cand.Tech.Sci. N.V. Tarasova of the All-Union Thermal Technical Institute, gave the results of investigation on critical thermal loadings and heat transfer from the walls of tubes to water, and steam-water mixture. Cand.Tech.Sci. I.T. Alad'ev, Engineer, L.D. Dodonov and V.S. Udalov of the Power Institute of the Acad.Sci. of the U.S.S.R. gave a report on 'Heat Transfer and Critical Thermal Fluxes during boiling of under heated water in Tubes'. Cand.Tech.Sci. E.K. Averin of the Power Institute

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Session/<sup>on</sup>heat exchange during change of aggregate state of matter.

96-3-23/26

of the Acad.Sci. of the U.S.S.R., reported on Heat exchange during boiling under conditions of forced circulation of water'. Engineer G.G. Treshchev of the All-Union Thermo-Technical Institute, reported on 'Experimental investigation of the mechanism of the heat exchange during surface boiling'. Dr.Tech.Sci. S.S. Kutateladze and Cand.Tech.Sci. V.N. Moskvicheva of the Central Boiler Turbine Institute, considered the relationship between the hydro-dynamics of a two-phase layer with the theory of crises in the mechanism of boiling. Cand. Tech.Sci. L.S. Sterman, Engineers V.V. Morozov and S.A. Kovalev of the Moscow Division of the Central Boiler Turbine Institute, reported on 'A study of heat exchange during boiling of liquids in tubes at various pressures up to 85 atms'. Cand.Tech.Sci. E.A. Kazakova (GIAP) reported on questions of heat exchange during the critical point under conditions of natural convection. The following took part in the discussion:- Dr.Phys.Math.Sci. A.A. Gukhman, Dr.Tech.Sci. B.S. Petukhov, Corresponding Member of the Acad.Tech.Sci. Ukrainian SSR, V.I. Tolubinskiy, Cand.Tech.Sci. A.P. Ornatskiy, Dr.Tech.Sci. V.G. Pastovskiy and Cand.Tech.Sci. M.I. Korneyev. The section on heat exchange during condensation and evaporation heard 7 reports. Dr.Tech.Sci. L.D. Berman of the All-Union Thermo-Technical Institute reported on 'Heat and Mass exchange during condensation of steam from a moving steam-air mixture on horizontal tubes'. Cand.Tech.Sci. N.V. Zozuli of the Institute of Thermal Engineering

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Session on heat exchange during change of aggregate state of matter. 90-3-23/28

of the Acad.Sci. Ukrainian SSR considered the study of the process of heat exchange and the hydro-dynamics of flow of a film of condensate. Cand.Tech.Sci. O.A. Kremnev, of the Institute of Thermal Engineering of the Acad.Sci. Ukrainian SSR gave the results of an experimental investigation of heat and mass exchange in models of air, and water coolers used in deep mines. Cand.Tech.Sci. K.I. Reznikovich reported on a theoretical solution of the problem of calculating the parameters of a cooled steam gas mixture. Engineer A.L. Satanovskiy reported on 'Heat exchange during air-water evaporative cooling of equipment'. Engineer L.I. Gel'man of the Central Boiler Turbine Institute reported about investigations on heat transfer during condensation of mercury vapour on a steel wall. Dotsent V.F. Yanchenko of the Ural Polytechnical Institute, Cand.Tech.Sci. O.A. Kremnev, Dr.Tech.Sci. L.D. Berman and V.A. Smirnov of the Power Institute Acad.Sci. Ukrainian SSR contributed to the discussion. The session noted the need for further development of investigations of combined processes of heat and mass exchange; further development of study of heat exchange during change of aggregate conditions of promising new working substances; a profound study of the relationships and mechanism of the process of heat exchange and the production of data for practical calculations, and recommendations for the design of new power plant. The session directed the

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Session on heat exchange during change of aggregate state of matter. 90-3-23/26

attention of the Acad.Sci. U.S.S.R. and Gosplan U.S.S.R. to the need for rapid study of the physical properties of new working substances. It was decided to call a session devoted to convective heat exchange in uniform media in Leningrad, in 1959.

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Card 7/7

PHASE I BOOK EXPLOITATION  
SOV/3998  
SOV/31-M-14

Academy of Sciences USSR, Institut teploenergetiki

Teploobmen i gidrodinamika (Heat Transfer and Hydrodynamics) Kiyev, 1958. 190 p. (Series: Its: Sbornik trudov, no. 14) 2,000 copies printed.

Eds. of Publishing House: Ya.L. Kaplan and N.M. Labinova; Tech. Academician, Academy of Sciences USSR; G.M. Shchegolev (Deputy Ed.), Candidate of Technical Sciences; N.M. Kondak (Responsible Editor), Candidate of Technical Sciences; V.I. Tolubinskiy, Candidate of Technical Sciences; N.M. Nazarchuk, Candidate of Technical Sciences; P.D. Shvetsov, Professor; and N.M. Pyatshvlin, Candidate of Technical Sciences.

PURPOSE: This collection of articles is intended for scientific workers and technical personnel in the fields of heat transfer and hydrodynamics.

CONTENTS: This collection of 18 articles deals with experimental and theoretical studies of problems in heat transfer and hydrodynamics as they affect steam and gas turbines and heat-transfer devices. The results of theoretical investigations of heat transfer for the turbine components and in elements of heat-utilizing apparatus are described. The calculation methods are suggested. Several problems of the thermodynamics and aerodynamics of steam and gas turbines are discussed. References follow each article.

1. Politskiy, S.A. Investigation of the Amount of Heat Given off When Boiling Solutions of Lithium Bromide and Lithium Chloride are Boiled Under Vacuum 97

The paper deals with a study of the heat-transfer coefficient for boiling solutions of LiBr and LiCl under conditions of solution, the ambient pressure, and other parameters are determined.

2. Blazhub, I.Ye. Approximate Method of Calculating Velocity and Temperature Fields for the Case of Laminar Flow of a Compressible Fluid with Heat-Transfer Around an Object 102

Politskiy, M.I. On the Possibility of Reducing the Differential Equations of a Laminar Boundary Layer to Ordinary Differential Equations 117

3. Shchegolev, G.M., and V.I. Rechuk. Aerodynamic Investigations of the System of Interdiffuser Exchange of Steam in Powerful Steam Turbines 122

The authors present the results of model tests to study interdiffuser exchange in steam turbines. The study is primarily concerned with the hydraulic losses encountered. Recommendations for reducing the internal drag of the system are presented.

4. Seleznev, I.L. Effect of Manufacturing Defects on End Losses in the Guide Vanes of Welded Turbine Casings 134

5. Gorbetiy, Yu.P., A.Sh. Dorfman, and M.I. Sukhovetskiy. Effect of Manufacturing Defects on the Magnitude of the Profile Losses in Cascade Intake Nozzles 148

6. Sukhovetskiy, M.I., and A.Sh. Dorfman. Criteria for Estimating the Efficiency of Intake Nozzles 159

7. Yermolenko, A.S., and A.P. Fedosenko. Losses in Turbine Guide Vanes of the Cascade Type 167

8. Yermolenko, A.S., and A.P. Fedosenko. Investigation of the Losses in Turbine Blade Cascades 174

The above two papers deal with an investigation of the losses in turbine guide vanes of the cascade type. The efficiency of the cascade is determined as a function of the inflow angle, blade-incidence angle, blade pitch, and other parameters.

9. Shvetsov, P.D., V.M. Sifun, and L.I. Romanyuk (Deceased). Experimental Investigation of the Heat Conductivity of Boils Used in Greenhouses and Boilers 186

AVAILABLE: Library of Congress

Card 7/7

AC/PA/PA  
7-28-60

BALITSKIY, S. A.: Master Tech Sci (diss) -- "Investigation of thermal emission in the model of a regenerator for lithium bromide and chloride refrigerating equipment". Odessa, 1959. 18 pp (Min Higher Educ Ukr SSR, Odessa Tech Inst of the Food and Refrigeration Industry), 150 copies (KL, No 17, 1959, 108)

ZOZULYA, N.V. [Zozulia, M.V.]; BALITSKIY, S.A. [Balits'kyi, S.P.]

Analytical method for determining the initial thickness of a liquid layer during boiling in a downward flowing film. Dop. AN URSR no.3: 342-344 '65. (MIRA 18:3)

1. Institut tekhnicheskoy teplofiziki AN UkrSSR.

BALITSKIY, S.A., kand. tekhn. nauk; SROYELOV, V.S., inzh.; SUSHON, L.P.

Lithium chloride units for conditioning air. Vod. i san. tekhn.  
no.2:3-9 F '64 (L. 18:2)

BUTUZOV, A.I.; FAYNZIL'BERG, S.N.; LEONT'YEV, G.G.; BALITSKIY, S.A.;  
DMITRIYEV, M.M.

Use of refrigeration in the coke and coal chemicals industry. Koks  
i khim. no.7:37-40 '65. (MIRA 18:8)

1. Kiyevskiy politekhnicheskii institut (for Butuzov, Faynzil'berg,  
Leont'yev). 2. Donetskii filial Nauchno-issledovatel'skogo i  
proyektnogo instituta metallurgicheskoy promyshlennosti (for  
Balitskiy). 3. Ukrainskiy sovet narodnogo khozyaystva (for  
Dmitriyev).

KURILOV, G.V., inzh.; VASYANOVICH, I.F., inzh.; YARKHO, V.I., inzh.;  
MORGUNOV, V.N., inzh.; BALITSKIY, S.A., kand. tekhn. nauk

Drying rigid mineral wool plates with bitumen-kaolin binder.  
Stroi. mat. 11 no. 12:12-14 D '65. (MIRA 18:12)

BALITSKIY, V., direktor-polkovnik puti i stroitel'stva.

Interesting example of bridge restoration. Zhel. dor. transp. no.3:  
72-74. '47. (MIRA 13:2)  
(Kiev--Railroad bridges--Repairing)



BALITSKIY, V. (Aleysk, Altayskiy kray)

Lack of coordination in the writing of certain equalities. Mat. v  
shkole no.3:50-51 My-Je '59. (MIRA 12:9)  
(Mathematics)

of  $\text{Al}^{2+}$  and  $\text{Na}^{2+}$  reactions

SOURCE:

Sovremnyye reaktsii pri mal'kikh i srednikh energiyakh; trudy  
Vtoroy Vsesoyuznoy konferentsii, iyul' 1960 g. Ed. by  
A. S. Davydov and others. Moscow, Izd-vo AN SSSR, 1962, 450-477

... were absorbed in

Институт имени П. Н. Лебедева АН СССР (Physics  
Institute imeni P. N. Lebedev AN USSR)

BALITSKIY, V.D., inzhener.

Efficient manufacturing process of cylindrical boiler shells.  
Vest. mash. 33 no.12:58 D '53. (MLRA 6:12)  
(Boilers)

POPOVSKIY, B.V., kand.tekhn.nauk, laureat Leninskoy premii; ROZENSHTeyN,  
I.M., inzh.; BALITSKIY, V.M., inzh.

Construction of tanks using thickened rolled panels. Mont. i spets.  
rab. v stroi. 23 no.9:12-16 S '61. (MIRA 14:9)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti  
i Institut elektrosvarki imeni Ye.O.Patona.  
(Tanks)

1. The first part of the document is a list of the names of the individuals who were involved in the project. The names are listed in alphabetical order and are as follows: [illegible]

2. The second part of the document is a list of the dates on which the individuals were involved in the project. The dates are listed in chronological order and are as follows: [illegible]

3. The third part of the document is a list of the locations where the individuals were involved in the project. The locations are listed in alphabetical order and are as follows: [illegible]

4. The fourth part of the document is a list of the activities in which the individuals were involved in the project. The activities are listed in alphabetical order and are as follows: [illegible]

5. The fifth part of the document is a list of the results of the project. The results are listed in alphabetical order and are as follows: [illegible]

...which is then fixed to a rigid framework and expanded to form a ...  
...is then fixed to a rigid framework and expanded to form a ...

...A ...

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BALITSKIY, V.P.

Cybernetics and bridge designing. Transp.stroi. 14  
no.12:56 D '64. (MIRA 19:1)

1. Glavnyy inzhener proyekta Lengiprotransmosta.



BALITSKIY, V.S.; LYUBOFEYEV, V.N.

Finds of native copper in upper Tertiary volcanic rocks in the  
Nakhichevan A.S.S.R. Izv. AN Arm.SSR.Geol.i geog.nauki 14 no.4:  
69-71 '61. (MIRA 14:9)

1. Krasnodarskiy filial Vsesoyuznogo nefte-gazovogo nauchno-  
issledovatel'skogo instituta, g. Krasnodar.  
(Nakhichevan A.S.S.R.--Copper)

BALITSKIY, V.S.

Age of complex metal mineralization in the northwestern Caucasus.  
Trudy KF VNII no.6:335-339 '61. (MIRA 15:2)  
(Caucasus, Northern--Ore deposits)

BALITSKIY, V.S.; LYUBOFEYEV, V.N.

Outline mineralogy and geochemistry of the Tuba group of complex  
metal ores (northwestern Caucasus). Trudy KF VNII no.6:358-368  
'61. (MIRA 15:2)

(Caucasus, Northern--Ore deposits)

LYUBOFEYEV, V.N.; BALITSKIY, V.S.

Orthite from the Gilutskiy granitoid massif. Izv. AN Arm.SSR. Geol.  
i geog.nauki 14 no.5:23-29 '61. (MIRA 15:1)

1. Krasnodarskiy filial Vsesoyuznogo nefte-gazovogo nauchno-issle-  
dovatel'skogo instituta, laboratoriya geologii rudnykh mestorozhdeniy.  
(Armenia—Allanite)

BALITSKIY, V.S.

Redistribution of mineral matter in ores of the Laura copper deposit (northwestern Caucasus). Geol.rud.mestorozh. no.4:101-105 J1-Ag '62. (MIRA 15:8)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta, Laboratoriya geologii rudnykh mestorozhdeniy.

(Laura Valley--Ore deposits)

BALITSKIY, V.S.; LYUBOFEYEV, V.N.

Physicochemical characteristics of mineral-forming solutions  
as revealed by the studies of complex metal mineralization  
in the northwestern Caucasus. Geokhimiia no.9:806-812  
'62. (MIRA 15:11)

1. All-Union Oil-Gas Scientific Research Institute,  
Krasnodar.  
(Caucasus, Northern--Mineralogical chemistry)

BALITSKIY, V.S.; LYUBOFEYEV, V.N.

Conditions governing the localization and composition of  
ores of the complex metal mineralization in the upper  
Belaya Basin. Trudy KF VNII no.10:267-288 '62. (MIRA 15:11)  
(Belaya Valley (Krasnodar Territory)--Ore deposits)

BALITSKIY, V.S.

Redeposition of sulfides in the ores of the Laura copper deposit.  
Vest.LGU no.24:136-138 '62. (MIRA 16:2)  
(Laura Valley—Sulfides)



BALITSKIY, V.S.; CHAITSKIY, V.P.

New data on ancient granitoids in the southern part of western Ciscaucasia. Izv. AN SSSR. Ser. geol. 29 no.12:90-93 D '64.

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta. (MIRA 18:1)

HEMETATO, Gr., akademik, BALIU, I. KURDYAN, M. [Gucuiann, M].

Role of the adrenals in maintaining blood proteins and in antibody formation [with summary in English]. Pat.fiziol. i eksp.terap  
2 no.5:11-17 S-0 '58 (MIRA 11:12)

1. Iz Nauchno-issledovatel'skogo meditsinskogo instituta, Kluzhskiy filial AN, Rumynskaya Narodnaya Respublika.

(BLOOD PROTEINS, physiol.

eff. of adrenalectomy & cortisone (Rus))

(ANTIBODIES,

form., eff. of adrenalectomy & cortisone (Rus))

(ADRENALECTOMY, eff.

on antibody form & blood proteins (Rus))

(CORTISONE, eff.

same (Rus))

ROSETTI, STEFANIA  
SURNAME, Given Names

Country: Rumania

Academic Degrees:

Affiliation: -not given-

Source: Bucharest, Farmacia, Vol IX, No 8, Aug 1961, pp 487-493.

Data: "A New Sterility Test for Antibiotics Based on the Use of Ion Exchanging Resins. I. Control of the Sterility of Dicillin."

Authors:

ROSETTI, Matilda, -Pharmacist.-

BALIU, Stefania, -Pharmacist.-

OPD 981643

S/081/62/000/004/032/087  
B156/B138-138

AUTHORS: Vintu, V., Popescu, M., Baliu, S.

TITLE: Reactions in the methylation and alkylation of toluene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1962, 199, abstract 4Zh131 (Bul. Inst. petrol, gaze si geol.', v. 6, 1960, 247 - 260)

TEXT: The reactions were studied, which are involved in methylating toluene (I) by reaction with  $n\text{-C}_5\text{H}_{11}\text{Na}$ ,  $\text{iso-C}_5\text{H}_{11}\text{Na}$ ,  $n\text{-C}_4\text{H}_9\text{Na}$  and  $\text{tert-C}_4\text{H}_9\text{Na}$  (obtained from the corresponding fluorides or bromides), and also of its (I) alkylation with the complex compound  $n\text{-C}_5\text{H}_{11}\text{Na}\cdot\text{TiCl}_4$ . In the first case, the side chain is alkylated, in the second the ring. Polyalkylation products are also formed, but no dibenzyl. The mechanism of the reactions is investigated. [ Abstracter's note: Complete translation. ]

Card 1/1

ROMANIA

BALIU, Stefania.

Bucharest, Farmacia, No 1, Jan 1964, pp 43-47

"New Information Contained in the Forthcoming Edition of the  
Rumanian Pharmacopoeia Concerning the Determination of  
the Microbiological Activity of Antibiotics."

SAVITSKY, I., GUCHENKO, K., BALIYAN, A., Engs.

Tractors - Motors

Repairing cylinder heads of tractor motors. MTS 13, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress  
June 1953. UNCL.

KOLMAKOV, V.M., inzh.; BALIYEV, Ch.B., inzh.; LINETSKIY, G.I.,  
inzh.; POLYANSKIY, S.K., inzh.; LUYK, I.A., inzh.;  
ZHARDINOVSKIY, G.M., inzh.; PEREVALYUK, M.V., red.

[Album on the technical maintenance of the LAZ-690 motor  
crane] Al'bom tekhnicheskogo obsluzhivaniia avtokrana  
LAZ-690. Moskva, Stroiizdat, 1964. 110 p. (MIRA 17:6)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii  
i mekhanizatsii stroitel'nogo proizvodstva.

KOLMAKOV, V.M., inzh.; BALIYEV, Ch.B., inzh.; LINETSKIY, G.I.,  
inzh.; POLYANSKIY, S.K., inzh.; LUYK, I.A., inzh.;  
ZHARDINOVSKIY, G.M., inzh.; LYTKINA, L.S., red.

[Album on the technical maintenance of the K-51 automobile  
crane] Al'bom tekhnicheskogo obsluzhivaniia avtokrana K-51.  
Moskva, Stroiizdat, 1964. 119 p. (MIRA 17:5)

1. Kiev. Nauchno-issledovatel'skiy institut organizatsii i  
mekhanizatsii stroitel'nogo proizvodstva.



KOLMAKOV, V.M., inzh.; BALIYEV, Ch.B., inzh.; LINETSKIY, G.I.,  
inzh.; POLYANSKIY, S.K., inzh.; LUYK, I.A., inzh.;  
ZHARDINOVSKIY, G.M., inzh.; PEREVALYUK, M.V., red.;  
BOROVNEV, N.K., tekhn. red.

[Album for the maintenance of the LAZ-690 motor crane]  
Al'bom tekhnicheskogo obsluzhivaniia avtokrana LAZ-690.  
Moskva, Stroiizdat, 1964. 110 p. (MIRA 17:3)

1. Akademiya budivnytstva i arkhitektury URSR. Institut  
organizatsii i mekhanizatsii stroitel'nogo proizvodstva.

BALIYEVA, I.

Mishka the Siberian. IUn.nat. no.4:4-7 Ap '59.  
(Sables)

(MIRA 12:3)

YUSUFOV, A.G.; POPOVA, G.S.; BALIYEVA, M.A.

Effect of a presowing treatment of seeds with trace elements on  
corn yields. Dokl. AN Azerb. SSR 17 no.8:733-736 '61.

(MIRA 14:10)

1. Otdel fiziologii rasteniy Dagestanskogo nauchno-issledovatel'sko-  
go instituta sel'skogo khozyaystva. Predstavleno akademikom  
AN Azerbaydzhanskoy SSR V.R. Volobuyevym.

(Corn(Maize))

(Trace elements)

POPOVIC, Miroslav; ANDREJEVIC, Milan; POPOVIC, Milica; ~~BALJOSEVIC, Andra~~

Scurvy in Metohija. Glasn. Hig. Inst., Beogr. 5 no.1-2;  
47-56 Jan-June 56.

1. Interno odeljenje Opste bolnice u Prizrenu; upravnik:  
dr. Miroslav Popovic.  
(SCURVY, epidemiol.  
in So. Yugoslavia, statist. (Ser))

POZNIC, M.; VASILJEVIC, D.; BALJOZOVIC, A.

Severe injury of the face with an ax. Srpski arh. celok. lek.  
83 no.7-8:860-863 July-Aug 55.

1. I Hirurska klinika Medicinskog fakulteta u Beogradu. Upravnik:  
Milivoje Kostic. II Hirurska klinika Medicinskog fakulteta u  
Beogradu. Upravnik: Vojislav Stanojevic.

(FACE, wds & inj.

ax-inflicted, surg. (Ser))

(WOUNDS AND INJURIES,

face, ax-inflicted, surg. (Ser))

STOJANOVIC, V., prof. dr.; VASILJEVIC, D., doc. dr.; BALJOZOVIC, A., dr.;  
DRAGOJEVIC, D., dr.

First aid and further surgical treatment of perforated ulcer.  
Med. glas. 19 no.2/3:43-46 F-Mr '65.

1. II hirurska klinika Medicinskog fakulteta u Beogradu  
(Upravnik: prof. dr. V.K. Stojanovic).

L 26780-00

ACC NR: AP6023767

SOURCE CODE: YU/0015/65/000/02-/0043/0046

AUTHOR: Stojanovic, V. K. (Professor; Doctor; Head); Vasiljevic, D. (Docent; Doctor);  
Baljozovic, A. (Doctor); Dragojevic, D. (Doctor)

ORG: Second Surgical Clinic/headed by Professor Doctor V. K. Stojanovic/, Medical  
Faculty, Belgrade (II hirurska klinika Medicinskoy faculteta)

TITLE: First aid and surgical treatment in perforated peptic ulcer

SOURCE: Medicinski glasnik, no. 2-3, 1965, 43-46

TOPIC TAGS: digestive system disease, surgery

ABSTRACT: Data on 388 men and 59 women with perforated peptic ulcers treated between 1947 and 1962; ages, occupations, seasonal and time-of-day patterns, prior symptoms of gastric difficulty, symptoms of perforation and tests to confirm presence thereof including muscular defense, leukocytosis; times between perforation and medical examination; surgical and other methods of treatment are reviewed and discussed. [JPRS]

SUB CODE: 06 / SUBM DATE: none / OTH REF: 012

Card 1/1 mgs

STOJANOVIC, V.; DRAGOJEVIC, B.; BALJOZOVIC, A.

Clinical aspects and treatment of acute pancreatitis. Acta  
chir. iugosl. 4 no.1:19-34 1957.

1. II. Hirurska klinika Medicinskog fakulteta u Beogradu  
(Upravnik: prof. dr. Vojislav Stojanovic).  
(PANCREATITIS, case reports  
(Ser))



BALJOZOVIC, Aleksandar; NEDILJKOVIC, Dragos; LEXIC, Svetomir

Unusual location of echinococcosis in the muscle. Srpski arh. celok.  
lek. 87 no.1:89-94 Jan 59.

1. II Hirurska klinika Meditsinskog fakulteta u Beogradu Upravnik:  
prof. dr Vojislav K. Stojanovic.

(ECHINOCOCCOSIS, case reports  
misc. (Ser))

(MUSCLES, dis.  
echinococcosis (Ser))

BALJOZOVIC, A. dr.; PROKIC, D., dr.

Postoperative fatal pulmonary embolism. Med. arh. 18 no.2:  
63-71 Mr-Je '64.

1. II hirurska klinika Medicinskoy fakulteta u Beogradu  
(Upravnik: Prof. dr V.K. Stojanovic).

RASOVIC, Ljubomir; MARKOVIC, Aleksandar; BALJOZOVIC, Aleksandar; DRAGICEVIC,  
Branislav; NEDELJKOVIC, Dragas

Local treatment of burns. Srpski arh. celok. lek. 88 no.9:845-852  
S '60.

1. II Hirurska klinika Medicinskog fakulteta Univerziteta u Beogradu.  
Upravnik: prof. dr Vojislav K. Stojanovic. 2. Clan Uredivackog odbora,  
"Srpski arhiv za celokupno lekarstvo"

(BURNS ther)

YUGOSLAVIA / Cultivated Plants. Fruit Trees.  
Small Fruit Trees.

M-7

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73159.

Author : Baljozovic, Jovan.  
Inst : Not given.  
Title : Black Currant.

Orig Pub: Poljopr. Vojvod., 1957, 5, No 35-41.

Abstract: Recommendations for agricultural engineering of  
black currant. In Yugoslavia best varieties are  
"Goliat", "Rozenal", "Silvergiger", "Bolduin" and  
"Bellington" which give harvests up to 10 t/ha.

Card 1/1

140

BOKSERMAN, Ye.I. [Bokserman, I.E.I.]; BALK, E.Ye. [Balk, Ye.Yu.]; CHIZIMAKOVA,  
V.P.

New methodology for the evaluation of the hygrothermal resistance  
of leather. Leh. prom. no.3:30-31 J1-S '65. (MIRA 18:9)

BALK, G.D. (Smolensk)

Mathematics on a railroad. Mat. v shkole no.4:51-57 J1-Ag  
'61. (MIRA 14:8)  
(Mathematics--Study and teaching)  
(School excursions)

BALK, M. B.

Cand. Physicomath Sci.

Dissertation: "Certain Problems of Interpolating Analytical Functions."

11/5/50. *class.*

Moscow Regional Pedagogical Inst.

SO Vecheryaya Moskva  
Sum 71

BALK, M.

191798

USSR/Mathematics - Pedagogy, Sep/Oct 51  
Mathematics

"Smolensk Oblast Mathematical Olympiad of 1951,"  
M. Balk, I. Raikhvargher

"Uspekhi Matemat Nauk" Vol VI, No 5 (45), pp 200-  
203

In the 3d Smolensk Olympiad the students of all  
cities and almost of all rayons took part.  
Teachers and students of the Math Phys Faculty,  
Smolensk Pedagogic Inst, representatives of the  
OBLONO (Oblast Soc for Sci Olympiad), Oblast Inst

191798

USSR/Mathematics - Pedagogy, Sep/Oct 51  
Mathematics (Contd)

of Teacher Improvement, and Smolensk House of Pio-  
neers organized the olympiad. More than 7,500  
students, 6th-10th grades, participated, includ-  
ing 1,137 from the city of Smolensk, divided as  
follows: 362 in the 6th, 409 in 7th, 157 in 8th,  
106 in 9th, 103 in 10th grades (total 1,137).  
Examples of problems given the various grades.

191798



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APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103310015-7"

ARGUNOV, Boris Ivanovich; RALK, Mark Beneyich; SIDOROVA, L.A., redaktor;  
KAPUSTINA, V.S., redaktor; RYBIN, I.V., tekhnicheskii redaktor

[Constructions in plane geometry; manual for students of pedagogical institutes] Geometricheskie postroeniia na ploskosti; posobie dlia studentov pedagogicheskikh institutov. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 268 p.

(Geometry. Plane)

(MIRA 9:3)

BALK, Mark Benavich; LEPESHKINA, N.I., redaktor; RYBIN, I.V., tekhnicheskii redaktor

[Organization and content of extracurricular studies in mathematics; a manual for teachers] Organizatsiia i sodержanie vneklassnykh zaniatii po matematike; posobie dlia uchitelei. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 246 p.  
(Mathematics--Study and teaching) (MIRA 10:1)

Balk, M. B.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp. Mention is made of Bernshteyn, S. N. and Kolmogorov, A. N.

Arin', E. I. (Riga). On the Concept of Partial Continuity of Function.

75

Balk, M. B. (Smolensk). On an Analog of the Liouville Theorem.

75-76

There is 1 USSR reference.

Batyrev, A. V. (Rostov-na-Donu). On the Stability of a Solution of Hilbert Boundary Problem.

76

Belinskiy, P. P. (L'vov). On the Existence of a Solution of Variational Quasi-conformal Mapping Problems

77

Bredikhina, Ye. A. (Kuybyshev). On the Best Approximations of Almost-periodical Functions.

77

There is 1 USSR reference.  
Card 23/80

ARGUNOV, Boris Ivanovich; BALK, Mark Benevich; OSTIANU, N.M., redaktor;  
SMIRNOV, G.I., tekhnicheskii redaktor

[Constructions in plane geometry; manual for students in pedagogical  
institutes] Geometricheskie postroeniia na ploskosti dlia studentov  
pedagogicheskikh institutov. Izd. 2-oe. Moskva, Gos.uchebno-pedagog.  
izd-vo M-va prosv. RSFSR, 1957. 265 p. (MLRA 10:9)  
(Geometry, Plane)

BALK, M.B. (Smolensk); DUBNOV, Ya. S. (Moscow); PYATETSKIY-SHAPIRO,  
I.I. (Kaluga); VILENKIN, N. Ya. (Moscow); BALASH, E.E. (Moscow);  
LEVIN, V.I. (Moscow); DMITRIYEV, N.A. (Moscow); DYNKIN, Ye. B.  
(Moscow); NAYMARK, B.A. (Moscow); GEL'FAND, I.M. (Moscow)

Problems of higher mathematics. Mat. pros.no.2:270-274 '57.  
(MIRA 11:7)

(Mathematics--Problems, exercises, etc.)

BALK, M.B.

Theorem on entire functions. Uch. zap. MOPI 57 no.4:51-53 '57.

(Functions, Entire)

(MIRA 11:6)

~~BALK, M.B.~~

A property of Bernoulli's numbers. Uch.zap. MOPI 57 no.4:55-59  
'57. (MIRA 11:6)  
(Bernoullian numbers)



GAL'PERN, S.A. (Moskva); LOPSHITS, A.M. (Moskva); BALK, M.B. (Smolensk);  
ZHAROV, V.A. (Yaroslavl'); BYAKIN, V.I. (L'vov); ARNOL'D, V.I.  
(Moskva); MANIN, I.Yu. (Moskva); DYNKIN, Ye.B. (Moskva); PROIZ-  
VOLOV, V. (Moskva); ALEKSANDROV, A.D. (Leningrad); VITUSHKIN, A.G.  
(Moskva).

Problems of elementary mathematics. Mat. pros. no.3:267-270 '58.  
(Mathematics--Problems, exercises, etc.) (MIRA 11:9)

AUTHOR: Balk, M.B. SOV/42-13-6-5/33

TITLE: On a Theorem of Liouville Type. (Ob odnoy teoreme tipa Liuvillya)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 65-71 (USSR)

ABSTRACT: Principal result: Let  $\Phi(z)$  be a unique analytic function, let  $P(x,y)$  be a real polynomial of degree  $s$ ,  $P(x,y) \neq 0$ ,  $D_+$  (resp.  $D_-$ ) be the set of all points of the plane in which  $\Phi(z)$  is regular and  $P(x,y) > 0$  (resp.  $P(x,y) < 0$ ). If on one of the sets  $D_+$  or  $D_-$   $\text{Im } \Phi(z)$  is bounded from above and on the other one it is bounded from below, then every isolated singularity of the function  $\Phi(z)$  is a pole of at most  $s$ -th order and lies on the curve  $P(x,y) = 0$ . Several conclusions are formulated. There are 2 Soviet references.

SUBMITTED: April 29, 1957

Card 1/1

16(1)

PHASE I BOOK EXPLOITATION

SOV/3168

Balk, Mark Benevich

Geometricheskiye prilozheniya ponyatiya o tsentre tyazhesti (Geometrical Application of the Concept on the Center of Gravity) Moscow, Fizmatgiz, 1959. 230 p. (Series: Biblioteka matematicheskogo kruzha, no. 9) 25,000 copies printed.

Ed.: A. F. Lapko; Tech. Ed.: V. N. Kryuchkova.

**PURPOSE:** This book is intended primarily for advanced students of mathematics and physics. The book can also be used by secondary school teachers and directors of student mathematics associations.

**COVERAGE:** This book discusses the application of a concept in mechanics, the center of gravity, to mathematics and chemistry (problems on compounds and fusion). Each problem considered is prefaced by the necessary theoretical facts. The material contained in the book was originally used by the student mathematical association and the seminar on elementary mathematics at the Smolensk Pedagogical Institute. The author thanks A. F. Lapko for editing the book, and for suggesting his versions of two solutions (Sec. 2, problems 6 and 7, "Another Solution"). The Appendix contains short biographical sketches of the

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Geometrical Application of the Concept (Cont.)

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mathematicians mentioned in the book. No references are given.

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Geometrical Application of the Concept (Cont.)

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- 8. The centers of gravity of homogeneous plates and shells 81
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- 10. Application of the concept on the center of gravity to chemistry 101

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Appendix. On Mathematicians Mentioned in This Book

224

AVAILABLE: Library of Congress (QA839.B3)

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AC/mg  
3-14-60

BALK, M. B.

16(2)

PLANE I BOOK EXHIBITION SOV/2508

Matematicheskoye prosvetsheniye; matematika; yyy propodavaniye. Prirochniya i istoriya, yyy. 4 (Mathematics; Education; Mathematics, its Teaching, Application and History, Nr. 4) Moscow, Gostekhnizdat, 1959. 15,000 copies printed.

Ed.: I.M. Brumshcheyn, Editorial Board of Series: I.M. Brumshcheyn, A.I. Marashcheyn, I.M. Yaglom; Tech. Ed.: S.M. Akhlimov.

PURPOSE: This book is intended for persons without an extensive mathematical education who are interested in trends in contemporary mathematics. The book may be useful to high school mathematics teachers.

COVERAGE: The book consists of articles, reviews, and scientific and methodological reports, some of which are translations from other languages. The state of modern mathematics is covered, including applications, history, teaching of mathematics in schools, and mathematical developments in the USSR and abroad. One section deals with scientific and pedagogical life in the USSR and another contains reviews of certain mathematical publications. Some mathematical background is necessary to understand the book; certain articles require a knowledge of higher mathematics.

Mathematical Education; (Cont.)

SOV/2508

III. SCIENTIFIC-METHODICAL REPORTS  
( Teaching Experience and Pedagogical Experimentation)

- Abramovich, I.O., and S.I. Zetel'. On an Approximation of Graphs of Functions by Curves of the Second Order [Conics] 179
  - Gradshteyn, I.S. (Deceased) On One Sufficient Test of Indefinite Integrals Turning to Zero 189
  - Segal, B.I. On the Local Limit Theorem in Probability Theory 193
  - Tekshe, E. (Hungary) Remarks on the Theory of Geometric Constructions 197
- Brief Reports:
1. Balk, M.B. Computing a Sum by Weighting 205
  2. Ginzburg, B.L. Simplification of Multiplication From Left to Right 207
  3. Kuznetsov, A.V. A Study of the Roots of a Cubic Equation 207

Card 5/8

BALK, H.B. (Smolensk)

Computation of sums by the weighing method. Mat. pros. no. 4:205-267  
199.

(Addition)

(MIRA 12:11)

SKOPETS, Z.A. (Yaroslavl'); OSTROVSKIY, A.I. (Moskva); BESKIN, L.N. (Moskva);  
 BALK, M.B. (Smolensk); BORSUK, M.V. (Lvov); BYKOV, A.M. (Baku);  
 CHANTURIYA, Z.A. (Tbilisi); NOVIKOVA, V.S. (Orskovo-Zubevo); DUBNOV,  
 Ya.S. (Moskva); STECHIN, S.B. (Moskva); KHAVIN, L.P. (Leningrad);  
 ERDNIYEV, P. (Stavropol'); CHIAREULI, D.L. (GruzSSR); ASKERITOV, U.M.  
 (Yaroslavl'); GOLUBEV, V.A. (Kuvshino); MALININ, V.V. (Leningrad);  
 DAVYDOV, U. (Gorod); ROZENTBERG, V.I. (Leningrad); TIKHONOV, P.G.  
 (Kazanka); ROMANCHUK, M.A. (Khar'kov); MINLOS, R.A. (Moskva); OGAY,  
 S.V. (Frunze); ROFE-BEKETOV, F.S.; BERSHTEYN, A. (Moskva); ARLAZAROV,  
 V.L. (Moskva)

Solutions to problems. Mat.pros. no.4:253-270 '50.

(Mathematics--Problems, exercises, etc.) (MIRA 12:11)





ZAIGALLER, V.A. (Leningrad); RUDENKO, N. (Moskva); DAVYDOV, U. (Gomel');  
RABINOVICH, V. (Petrovsk-Kazakhstanskiy); BESKIN, L.N. (Moskva);  
TANATAR, I.Ya. (Moskva); SKOPETS, Z.A. (Yaroslavl'); DUBNOV, Ya.S.  
(Moskva); GEL'FOND, A.O. (Moskva); ROBINSON, R.M. (SShA); BALK,  
M.B. (Smolensk); SHUB-SIZONENKO, Yu.A. (Moskva)

Solutions to the problems. Mat. pros. no.5:261-274 '60.

(MIRA 13:12)

(Mathematics—Problems, exercises, etc.)

BALK, M.B.

Desargues type projective planes. Uch. zap. Smol. gos. ped.  
inst. No.10:12-15 '62. (MIRA 17:1)

1. The first of the two main parts of the report is a

summary of the work done during the period

from 1971 to 1973.

2. The second part of the report is a

description of the work done during the period

from 1974 to 1975.

3. The third part of the report is a

description of the work done during the period

from 1976 to 1977.

4. The fourth part of the report is a

description of the work done during the period

from 1978 to 1979.

5. The fifth part of the report is a

description of the work done during the period

from 1980 to 1981.

6. The sixth part of the report is a

description of the work done during the period

from 1982 to 1983.

7. The seventh part of the report is a

description of the work done during the period

from 1984 to 1985.

8. The eighth part of the report is a

description of the work done during the period

from 1986 to 1987.

9. The ninth part of the report is a

description of the work done during the period

from 1988 to 1989.

10. The tenth part of the report is a

description of the work done during the period

from 1990 to 1991.

11. The eleventh part of the report is a

description of the work done during the period

from 1992 to 1993.

12. The twelfth part of the report is a

description of the work done during the period

less than two poles (or at least one pole of order not

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BALK, M.B.

Degenerate bianalytic mappings. Izv. AN Arm. SSR. Ser. fiz.-  
mat. nauk 17 no.2:9-15 '64. (MIRA 17:9)

1. Smolenskiy pedagogicheskiy institut imeni K. Marksa.

BR

ACCESSION NR: AP4038578

S/0022/64/017/002/0009/0015

AUTHOR: Balk, M. B.

TITLE: Degenerate bianalytic mappings

SOURCE: AN ArmSSR. Izv. Seriya fiziko-matematicheskikh nauk, v. 17, no. 2, 1964, 9-15

TOPIC TAGS: bianalytic mapping, degenerate mapping, complex variable, analytic function, logarithmic spiral

ABSTRACT: The author studies the function

$$w = B(z) = \phi(z) + \bar{z}\psi(z), \quad (1)$$

which is bianalytic in a simply-connected region D of the plane of the complex variable  $z = x + iy$ , where  $\bar{z} = x - iy$ , and  $\phi(z)$  and  $\psi(z)$  are single-valued analytic functions in D. The mapping produced by the function

$$w = f(z) = u(x, y) + iv(x, y) \quad (2)$$

Cord 1/2



ACCESSION NR: AP4038578

is called degenerate if it maps some region D into a set without interior points (for example, a point, or a simple arc). Theorem: In order that a mapping, effected by a bianalytic function  $W = B(z)$ , be degenerate in a certain (simply-connected) region D, it is necessary and sufficient that  $B(z)$  can be represented in one of the following forms:

$$w = A(e^{\alpha z} + z) + B; \quad (3)$$

$$w = A(z + c)^{\gamma}(\bar{z} + \bar{c}) + B \quad (4)$$

(A, B, c,  $\alpha$ ,  $\gamma$  are constants,  $\text{Im } \alpha = 0$ ,  $|\gamma| = 1$ ). The map of the region D may only be one of the following figures (or part of it): point, straight line, circumference, or logarithmic spiral. Orig. art. has: 30 formulas.

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BALK, M.B.

Bianalytic functions with unisolated  $\alpha$ -points. Izv. AN Arm.  
SSR. Ser. fiz.-mat.nauk 17 no.3:7-19 '64. (MIRA 17:9)

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Monograph

UR/

Balk, Mark Benevich

Elements of space flight dynamics (Elementy dinamiki kosmicheskogo poleta)  
Moscow, Izd-vo "Nauka," 1965. 339 p. illus., biblio., index. 4450 copies  
printed. Series note: Mekhanika kosmicheskogo poleta

TOPIC TAGS: astronautics, spacecraft motion, spacecraft trajectory, ~~three~~ body  
problem

PURPOSE AND COVERAGE: The book presents the elements of the dynamics of  
space flight and trajectory problems in astronautics which are closely related  
to classical celestial mechanics. It is intended for all those who wish to be-  
come acquainted with the celestial-mechanical apparatus of astronautics, with  
the simplest problems of astrodynamics, and the methods for their solution.  
It will be useful to those, who intend to study the highly scientific literature  
on this subject.

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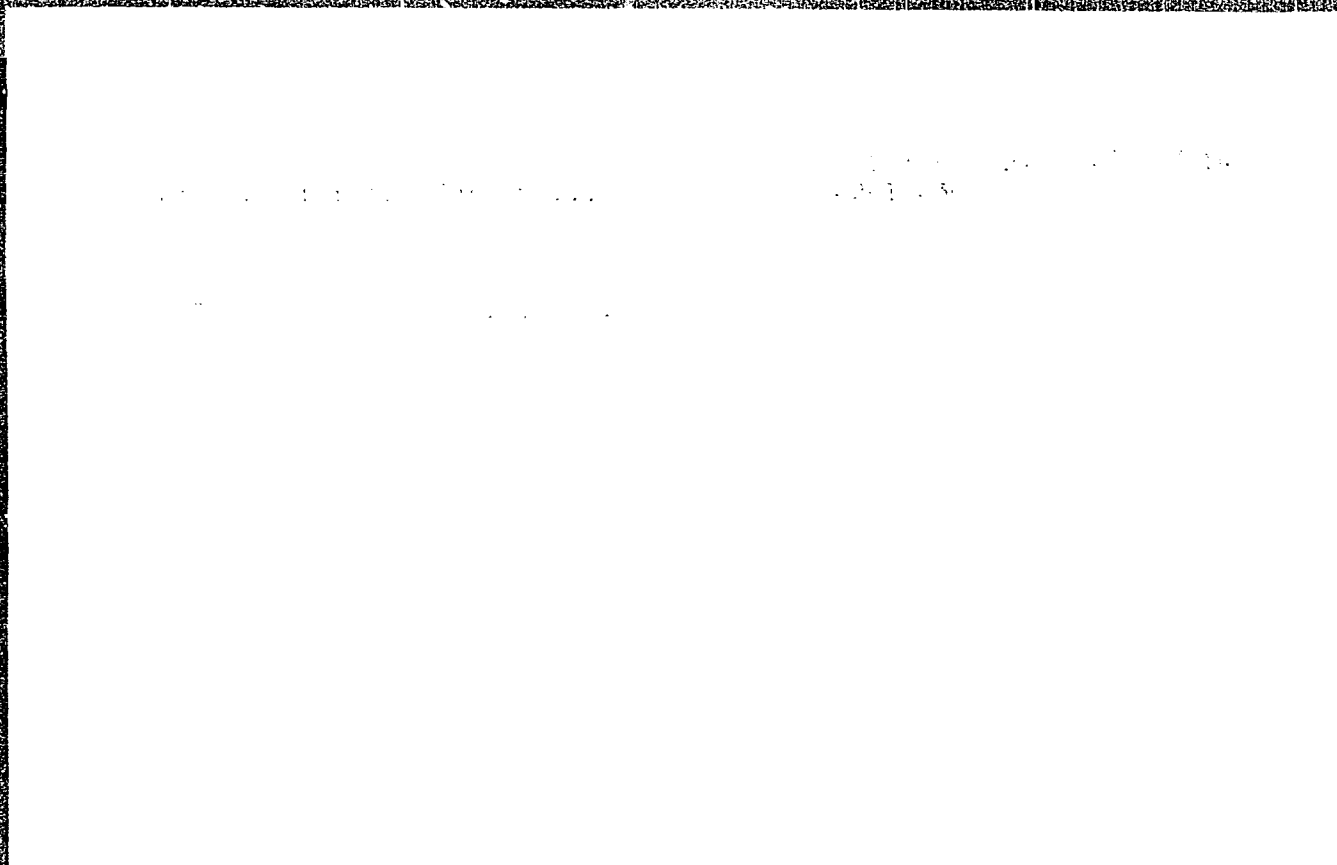
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